IN THE SPECIFICATION:

Please replace the paragraph beginning on page 1, line 26 with the following paragraph:

--Figs. 22A and 22B show the arrangement of a measurement apparatus according to related art using an electrostatic capacitance sensor. More specifically, the measurement apparatus comprises first and second electrostatic capacitance sensors (sensor probes) 101 and 102, first and second sensor amplifiers [[111]] 11 and [[112]] 12 which are electrically connected to the sensors 101 and 102 via connection cables 103, a controller 113 which receives measurement values from the first and second sensor amplifiers [[111]] 11 and [[112]] 12, and an oscillator 114 which outputs in-phase drive currents to the first and second sensor amplifiers [[111]] 11 and [[112]] 12. Weak AC currents from terminals [[111a]] 11a and [[112a]] 12a of the sensor amplifiers [[111]] 11 and [[112]] 12 are supplied from the sensor probes 101 and 102 to a target 104. A voltage drop by the impedance is measured to simultaneously measure distances "gap" between the sensor probes and the target at a plurality of measurement points on the target 104.--

Please replace the paragraph beginning on page 2, line 17 with the following paragraph:

--Currents flowing from the first and second sensor probes 101 and 102 to the target 104 flow back to terminals [[111b]] 11b and [[112b]] 12b of the sensor amplifiers via conductors which are set to almost the same potential as the housing ground of the apparatus.--

Please replace the paragraph beginning on page 4, line 9 with the following paragraph:

--A measurement error by the sensor drive phase and ground impedance in the measurement apparatus of related art will be explained with reference to Figs. 24A to 24F. The drive currents of the first and second sensor probes are in phase, and almost the sum of the two currents flows as a ground current into a common impedance, generating a voltage drop. The voltage drop appears between the terminals (between the terminals [[111a]] 11a and [[111b]] 11b and the terminals between the terminals [[112a]] 12a and [[112b]] 12b) of the sensor amplifiers [[111]] 11 and [[112]] 12, resulting in a measurement error in each sensor.--